

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A color wheel cartridge, comprising:
a readily removable color wheel housing for receiving color wheel, wherein the color wheel housing is configured to be readily removed from and inserted into an operative position and has a cutout portion to permit light to be projected therethrough to impinge on only a portion of a color wheel disposed therein;~~and~~
~~a color wheel.~~
2. (Original) The color wheel cartridge as defined in claim 1, further comprising a motor assembly to drive the color wheel.
3. (Original) The color wheel cartridge as defined in claim 1, wherein the cutout exposes less than fifty percent of the color wheel to the light.
4. (Original) The color wheel as defined in claim 1, wherein the color wheel has a memory disposed in a portion of thereof.
5. (Original) The color wheel cartridge as defined in claim 4, wherein the memory contains color wheel characteristics data.
6. (Original) The color wheel cartridge as defined in claim 4, wherein the memory contains firmware.
7. (Original) The color wheel cartridge as defined in claim 4, wherein the memory contains a diagnostic program.
8. (Original) The color wheel cartridge as defined in claim 4, wherein the memory contains color space data.
9. (Currently amended) The color wheel as defined in claim 4, wherein the cutout does not expose the ~~data-track~~ memory to the projected light.

10. (Original) The color wheel cartridge as defined in claim 9, wherein the memory is disposed at or adjacent a center of the color wheel.
11. (Original) The color wheel cartridge as defined in claim 9, wherein the memory includes key data to authorize an operation of a projector.
12. (Original) The color wheel as defined in claim 1, further comprising a data portion disposed adjacent a perimeter of the color wheel.
13. (Original) The color wheel cartridge as defined in claim 1, wherein the color wheel housing includes a surface that slides on a track, for ease of removal.
14. (Currently amended) A color wheel, comprising:
a replaceable color wheel disc; and
a memory for color wheel characteristics data disposed on the color wheel disc.
15. (Original) The color wheel as defined in claim 14, wherein the color wheel disc has a mounting hole therein.
16. (Currently amended) The color wheel as defined in claim ~~[[14]]~~ 15, wherein the memory is disposed adjacent the mounting hole.
17. (Original) The color wheel as defined in claim 14, further comprising
a first timing mark; and
data region on the outer periphery of the color wheel disc.
18. (Original) The color wheel as defined in claim 14, wherein the memory includes firmware.
19. (Original) The color wheel as defined in claim 14, wherein the memory includes a diagnostic program.

20. (Original) The color wheel as defined in claim 14, wherein the memory includes color space data.

21. (Currently amended) A projector, comprising:
means for readily replacing a color wheel; and
means for directing light from a light source through at least a portion of a color wheel.

22. (Original) The projector as defined in claim 15, further comprising means for preventing the projector from being illuminated unless data is detected on the color wheel indicating that the color wheel is authorized.

23. (Original) The projector as defined in claim 15, further comprising a data reader disposed to read data present on the color wheel.

24. (Original) The projector as defined in claim 17, wherein the means for directing light prevents lights from being directed through the color wheel when the data reader is activated.

25. (Original) A projector, comprising:
a replaceable color wheel cartridge including housing with a spindle for receiving a color wheel and with a cutout portion to permit light to be projected therethrough to impinge on only a portion of a color wheel disposed therein, a color wheel disposed on the spindle, and a motor for driving the spindle; and
means for directing light from a light source through at least a portion of a color wheel.

26. (Currently amended) The projector as defined in claim ~~[[19]]~~ 25, further comprising means for preventing the projector from being illuminated unless data is detected on the color wheel indicating that the color wheel is authorized.

27. (Currently amended) The projector as defined in claim ~~[[19]]~~ 25, further comprising a data reader disposed to read data present on the color wheel.

28. (Currently amended) The projector as defined in claim ~~[[21]]~~ 27, wherein the means for directing light prevents lights from being directed through the color wheel when the data reader is activated.
29. (Currently amended) The projector as defined in claim ~~[[19]]~~ 25, wherein the color wheel has a memory disposed in a portion of thereof.
30. (Currently amended) The projector as defined in claim ~~[[23]]~~ 29, wherein the memory contains color wheel characteristics data.
31. (Original) A method for operating a projector, comprising:
loading a replaceable color wheel into a projector; and
downloading from the replaceable color wheel data to the projector a firmware upgrade for the projector.
32. (Original) A method for operating a projector, comprising:
loading a replaceable color wheel into a projector; and
downloading from the replaceable color wheel data comprising a diagnostics program; and
running the diagnostics program on the projector.
33. (Currently amended) A projector, comprising:
a user replaceable color wheel adapted for selective disposition in a color wheel cartridge housing.
34. (Original) The projector as defined in claim 33, further comprising logic for reading a memory formed on the color wheel.

35. (Original) A method for operating a projector, comprising:
loading a replaceable color wheel into a projector; and
detecting timing marks on the replaceable color wheel to forcing timing related to
color segments on the replaceable color wheel to hereby allow different color wheels to
be used on the projector.
36. (New) The color wheel cartridge as defined in claim 1, wherein the color wheel
per se is readily replaceable in the readily removable from color wheel housing.